

**Amendments to the Claims:**

The followings listing of claims will replace all prior versions, and listings of claims in the application:

1. (Currently Amended)      A temperature sensor comprising:  
a bottomed tubular holder having an opening;  
a temperature detecting device, contained in a bottom part of the holder, having a lead pair connected thereto so as to be introduced from the opening side;  
a filler resin part filling the holder so as to seal the temperature detecting device and extending to the opening; and  
a sensor cover ~~integrated with~~ comprising a cap part covering the whole opening and a neck part extending ~~to the outside of~~ from the cap part ~~along an outer peripheral in a direction generally parallel to face of the opening of the bottomed tubular holder~~ lead pair drawn out of the cap, wherein the cap part and the neck part are integrated together.
2. (Original)      A temperature sensor according to claim 1, further comprising a guide part, projecting from an edge of the opening in the holder, for guiding leads constituting the lead pair;  
wherein the sensor cover covers the guide part.
3. (Original)      A temperature sensor according to claim 2, wherein the guide part has a T-shaped form including a part extending in a direction perpendicular to an extending direction of the holder and a part extending parallel to the extending direction of the holder.
4. (Original)      A temperature sensor according to claim 1, wherein an edge of the opening of the holder is formed with a substantially annular hook part projecting to the outside of the holder; and  
wherein the hook part engages at least a part of the sensor cover.
5. (Original)      A temperature sensor according to claim 1, wherein the sensor cover is

formed by hot melt molding.

6. (Cancel)

7. (Currently Amended) A temperature sensor according to claim 69, wherein ~~the device protecting part has a laminate structure~~ the holder and filler resin part are constituted by different kinds of resins.

8. (Currently Amended) A temperature sensor according to claim 69, wherein ~~the device protecting part has a laminate structure~~ the holder and the filler resin part are constituted by the same kind of resins.

9. (Currently Amended) A temperature sensor according to claim 61, wherein the holder is constituted by a resin; and

wherein the temperature detecting device is covered only with the a device protecting part is constituted by the holder and the filler resin part ~~filling the holder~~.

10. (Currently Amended) A temperature sensor according to claim 69, wherein the device protecting part contains a polyphenylene sulfide resin as a constituent material.

11. (New) A temperature sensor according to claim 1, wherein the neck part is extending from the cap part in a direction substantially perpendicular to the extending direction of the holder.

12. (New) A temperature sensor according to claim 2, wherein the lead pair extending substantially vertically from the filler resin part is bent at substantially right angles toward the guide part.